Airborne Internet Consortium Background

- Need for AIC
  - Lack of common aviation industry organization to leverage Internet technologies
  - Internet radically changing commerce
  - Aviation seems to be last to benefit

Airborne Internet Consortium Concept

- Purpose of AIC
  - Accelerate the rate of aviation absorption
    - By providing necessary research, certification and guidance methodologies,
    - Advocacy, and
    - Influence
  - Accelerate Technologies, Policy & Regulation

Airborne Internet Consortium Concept

- Acceleration includes
  - Flight deck
  - Cabin
  - Personal Computing
- Increased Transportation Mobility
- Increased Communication Mobility
- Economic Development and Jobs

Airborne Internet Consortium Concept

- Develop technologies that scale to exponential demand
- The commercial Internet is the model
- Not a defined network –
  - Network of topologies or architectures
  - Robust vs. Brittle
  - Emphasis on Standardizing Data Transport

Airborne Internet Consortium Developments

- AIC
- Public Partners and AIC RDT&E plans and Resources
- JPDO

For Additional Information See:

www.airborneinternet.org

Work program Determination:

"The role of AIC is to develop networks & networking standards for use in aviation that define methods, means and services for the transport of data, including quality and security ."

- **A set of criteria has been developed to ensure that the technologies and architectures worked on meet the AIC role**
- **Recommended work items will be presented to AIC Board for inclusion into the future work program**

Mandatory Criteria

- From proposals by stakeholder(s) AIC reviews and accepts
- Benefits aviation plus at least one other aviation industry stakeholder (e.g. system integrator, supplier, service provider)
- Has industry or government advocate with resource commitment to foster activity
- Adopts open and industry accepted network standards from recognized commercial industry forums (e.g. IETF, IEEE, ISO, SAE) with commercial volume implementation to reduce fault modes and to maximize level of experience
- Applies to on-board networking, network-based applications or network-based user services with interoperability and interchangeability
- Addresses aviation network infrastructure “Methods and Means” consistent with aviation standards such as DO-178B & DO-160

Desirable Criteria

- Provides for unified aviation system integration with common components
- Enables standardization of aviation computing resources for system-level and sub-system-level interoperability
- Supports unified onboard & off-board commercial maintenance

AIC Benefits

- Basic Concepts
  - Communication
  - Security
  - Safety
  - Economic Development
  - Job Creation